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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/848,834A

DATE: 08/29/2001
TIME: 15:04:48

Input Set : A:\09848834.txt
Output Set: N:\CRF3\08292001\I848834A.raw

3 <110> APPLICANT: Aphant Corporation
 5 <120> TITLE OF INVENTION: Chimeric Peptide Immunogens
 7 <130> FILE REFERENCE: 1102865-0047
 9 <140> CURRENT APPLICATION NUMBER: 09/848,834A
 10 <141> CURRENT FILING DATE: 2001-05-04
 12 <150> PRIOR APPLICATION NUMBER: 60/202,328
 13 <151> PRIOR FILING DATE: 2000-05-05
 15 <160> NUMBER OF SEQ ID NOS: 20
 17 <170> SOFTWARE: PatentIn version 3.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 10
 21 <212> TYPE: PRT
 22 <213> ORGANISM: Homo sapiens
 24 <220> FEATURE:
 25 <221> NAME/KEY: MOD_RES
 26 <222> LOCATION: (1)..(1)
 27 <223> OTHER INFORMATION: Pyroglutamic acid or 5-oxoproline
 30 <220> FEATURE:
 31 <221> NAME/KEY: MOD_RES
 32 <222> LOCATION: (10)..(10)
 33 <223> OTHER INFORMATION: Amidated-glycine or glycinamide
 36 <400> SEQUENCE: 1
 W--> 38 Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa
 39 1 5 10
 41 <210> SEQ ID NO: 2
 42 <211> LENGTH: 16
 43 <212> TYPE: PRT
 44 <213> ORGANISM: Tetanus bacillus
 46 <220> FEATURE:
 47 <221> NAME/KEY: PEPTIDE
 48 <222> LOCATION: (1)..(16)
 49 <223> OTHER INFORMATION: Amino acid sequence 829-844 of the Tetanus
 50 Toxoid Precursor (Tentoxylisin)
 53 <400> SEQUENCE: 2
 55 Met Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu
 56 1 5 10 15
 58 <210> SEQ ID NO: 3
 59 <211> LENGTH: 20
 60 <212> TYPE: PRT
 61 <213> ORGANISM: Plasmodium falciparum
 63 <220> FEATURE:
 64 <221> NAME/KEY: PEPTIDE
 65 <222> LOCATION: (1)..(20)
 66 <223> OTHER INFORMATION: Amino acid sequence 378-398 of the Plasmodium
 67 falciparum circumsporozoite (CSP) protein
 70 <400> SEQUENCE: 3
 72 Asp Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe Asn

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73 1 5 10 15
75 Val Val Asn Ser
76 20
78 <210> SEQ ID NO: 4
79 <211> LENGTH: 21
80 <212> TYPE: PRT
81 <213> ORGANISM: Tetanus bacillus
83 <220> FEATURE:
84 <221> NAME/KEY: PEPTIDE
85 <222> LOCATION: (1)..(21)
86 <223> OTHER INFORMATION: Amino acid sequence 947-967 of Tetanus
Toxoid Precursor (Tentoxylisin)
90 <400> SEQUENCE: 4
92 Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser
93 1 5 10 15
95 Ala Ser His Leu Glu
96 20
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 4
100 <212> TYPE: PRT
C--> 101 <213> ORGANISM: Artificial
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Synthetic peptide ✓
106 <400> SEQUENCE: 5
108 Gly Pro Ser Leu
109 1
111 <210> SEQ ID NO: 6
112 <211> LENGTH: 6
113 <212> TYPE: PRT
C--> 114 <213> ORGANISM: Artificial
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Synthetic peptide ✓
119 <400> SEQUENCE: 6
121 Ser Ser Gly Pro Ser Leu
122 1 5
124 <210> SEQ ID NO: 7
125 <211> LENGTH: 8
126 <212> TYPE: PRT
C--> 127 <213> ORGANISM: Artificial
129 <220> FEATURE:
130 <223> OTHER INFORMATION: Synthetic peptide ✓
132 <400> SEQUENCE: 7
134 Ser Ser Gly Pro Ser Leu Lys Leu
135 1 5
137 <210> SEQ ID NO: 8
138 <211> LENGTH: 16
139 <212> TYPE: PRT
140 <213> ORGANISM: Measles virus
142 <220> FEATURE:

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143 <221> NAME/KEY: PEPTIDE

144 <222> LOCATION: (1)..(16)

145 <223> OTHER INFORMATION: Amino acid sequence 288-302 of the measles

146 virus fusion protein, F

149 <400> SEQUENCE: 8

151 Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly Val Glu

152 1 5 10 15

154 <210> SEQ ID NO: 9

155 <211> LENGTH: 31

156 <212> TYPE: PRT

C--> 157 <213> ORGANISM: Artificial

159 <220> FEATURE:

160 <223> OTHER INFORMATION: Chimeric peptide made up of amino acid sequence 288-302 of the Me

161 asels virus fusion protein, F linked by a spacer peptide to amino acid sequence 2-10 of the GnRH hormone

164 <220> FEATURE:

165 <221> NAME/KEY: MOD_RES

166 <222> LOCATION: (1)..(1)

167 <223> OTHER INFORMATION: Amidated Lysine

170 <220> FEATURE:

171 <221> NAME/KEY: PEPTIDE

172 <222> LOCATION: (1)..(15)

173 <223> OTHER INFORMATION: Peptide corresponds to the amino acid sequences 288-302 of the

174 measles virus fusion protein, F

177 <220> FEATURE:

178 <221> NAME/KEY: PEPTIDE

179 <222> LOCATION: (19)..(22)

180 <223> OTHER INFORMATION: Spacer peptide

183 <220> FEATURE:

184 <221> NAME/KEY: PEPTIDE

185 <222> LOCATION: (23)..(31)

186 <223> OTHER INFORMATION: Peptide corresponds to amino acid sequences 2-10 of the human

187 GnRH hormone

190 <220> FEATURE:

191 <221> NAME/KEY: MOD_RES

192 <222> LOCATION: (31)..(31)

193 <223> OTHER INFORMATION: Amidated glycine or glycinamide

196 <400> SEQUENCE: 9

198 Lys Leu Leu Ser Glu Ile Lys Gly Val Ile Val His Arg Leu Glu Gly

199 1 5 10 15

W--> 201 Val Glu Gly Pro Ser Leu His Trp Ser Tyr Gly Leu Arg Pro Xaa

202 20 25 30

204 <210> SEQ ID NO: 10

205 <211> LENGTH: 34

206 <212> TYPE: PRT

C--> 207 <213> ORGANISM: Artificial

209 <220> FEATURE:

210 <223> OTHER INFORMATION: Chimeric peptide consisting of amino acid sequence 947-967 of the

211 Tetanus toxoid precursor (Tentoxylisin) linked by a spacer to am

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212 ino acid sequence 2-10 of the GnRH hormone
 214 <220> FEATURE:
 215 <221> NAME/KEY: MOD_RES
 216 <222> LOCATION: (1)..(1)
 217 <223> OTHER INFORMATION: Amidated phenylalanine
 220 <220> FEATURE:
 221 <221> NAME/KEY: PEPTIDE
 222 <222> LOCATION: (1)..(21)
 223 <223> OTHER INFORMATION: Amino acids 947-967 of the Tetanus Toxoid Precursor
 (Tentoxylsyn)
 227 <220> FEATURE:
 228 <221> NAME/KEY: PEPTIDE
 229 <222> LOCATION: (22)..(25)
 230 <223> OTHER INFORMATION: Spacer peptide
 233 <220> FEATURE:
 234 <221> NAME/KEY: PEPTIDE
 235 <222> LOCATION: (26)..(34)
 236 <223> OTHER INFORMATION: Amino acids 2-10 of the human GnRH hormone
 239 <220> FEATURE:
 240 <221> NAME/KEY: MOD_RES
 241 <222> LOCATION: (34)..(34)
 242 <223> OTHER INFORMATION: Amidated glycine or glycinamide
 245 <400> SEQUENCE: 10
 247 Phe Asn Asn Phe Thr Val Ser Phe Trp Leu Arg Val Pro Lys Val Ser
 248 1 5 10 15
 250 Ala Ser His Leu Glu Gly Pro Ser Leu His Trp Ser Tyr Gly Leu Arg
 251 20 25 30

W--> 253 Pro Xaa

256 <210> SEQ ID NO: 11

257 <211> LENGTH: 28

258 <212> TYPE: PRT

C--> 259 <213> ORGANISM: Artificial

261 <220> FEATURE:

262 <223> OTHER INFORMATION: Chimeric peptide consisting of amino acid sequence 830-844

of the

263 Tetanus toxoid precursor (Tentoxylsyn) linked by a spacer to am
 264 ino acid sequence 2-10 of the GnRH hormone

266 <220> FEATURE:

267 <221> NAME/KEY: MOD_RES

268 <222> LOCATION: (1)..(1)

269 <223> OTHER INFORMATION: Amidated-glutamine

272 <220> FEATURE:

273 <221> NAME/KEY: MOD_RES

274 <222> LOCATION: (28)..(28)

275 <223> OTHER INFORMATION: Amidated-glycine or glycinamide

278 <220> FEATURE:

279 <221> NAME/KEY: PEPTIDE

280 <222> LOCATION: (1)..(15)

281 <223> OTHER INFORMATION: Amino acid sequence 830-844 of the Tetanus Toxoid Precursor
 (Tentoxylsyn)

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285 <220> FEATURE:
286 <221> NAME/KEY: PEPTIDE
287 <222> LOCATION: (16)..(19)
288 <223> OTHER INFORMATION: Spacer peptide
291 <220> FEATURE:
292 <221> NAME/KEY: PEPTIDE
293 <222> LOCATION: (20)..(28)
294 <223> OTHER INFORMATION: Amino acid sequence 2-10 of the human GnRH hormone
297 <400> SEQUENCE: 11
299 Gln Tyr Ile Lys Ala Asn Ser Lys Phe Ile Gly Ile Thr Glu Leu Gly
300 1 5 10 15
W--> 302 Pro Ser Leu His Trp Ser Tyr Gly Leu Arg Pro Xaa
303 20 25
305 <210> SEQ ID NO: 12
306 <211> LENGTH: 33
307 <212> TYPE: PRT
C--> 308 <213> ORGANISM: Artificial
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Chimeric peptide consisting of amino acid sequence 378-398
of the
312 Plasmodium falciparum CSP protein linked by a spacer to amino ac
313 id sequence 2-10 of the GnRH hormone
315 <220> FEATURE:
316 <221> NAME/KEY: MOD_RES
317 <222> LOCATION: (1)..(1)
318 <223> OTHER INFORMATION: Amidated aspartic acid
321 <220> FEATURE:
322 <221> NAME/KEY: MOD_RES
323 <222> LOCATION: (33)..(33)
324 <223> OTHER INFORMATION: Amidated glycine or glycinamide
327 <220> FEATURE:
328 <221> NAME/KEY: PEPTIDE
329 <222> LOCATION: (1)..(20)
330 <223> OTHER INFORMATION: Amino acid sequence 378-398 of the Malaria
331 (Plasmodium falciparum) circumsporozoite
332 (CSP) protein
335 <220> FEATURE:
336 <221> NAME/KEY: PEPTIDE
337 <222> LOCATION: (21)..(24)
338 <223> OTHER INFORMATION: Spacer peptide
341 <220> FEATURE:
342 <221> NAME/KEY: PEPTIDE
343 <222> LOCATION: (25)..(33)
344 <223> OTHER INFORMATION: Amino acid sequence 2-10 of the human GnRH hormone
347 <400> SEQUENCE: 12
349 Asp Glu Lys Lys Ile Ala Lys Met Glu Lys Ala Ser Ser Val Phe Asn
350 1 5 10 15
352 Val Val Asn Ser Gly Pro Ser Leu His Trp Ser Tyr Gly Leu Arg Pro
353 20 25 30
W--> 355 Xaa

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/848,834A

DATE: 08/29/2001
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Input Set : A:\09848834.txt
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L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:101 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:114 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:127 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:157 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:207 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:259 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:308 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:361 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:407 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:14
L:441 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:453 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:15
L:487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:496 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:16
L:531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:543 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:17
L:596 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:602 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:608 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:18
L:661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:676 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:19
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:735 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:741 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:20
L:793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:802 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20